

## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/KR2003/002571

**A. CLASSIFICATION OF SUBJECT MATTER****IPC7 H01M 8/02**

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

IPC7 H01M 8/02

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
Korean patents and applications for inventions since 1975, Korean utility models and applications for utility models since 1975  
Japanese patents and applications for inventions since 1976

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5512391 A(Niles A.Fleischer, Rehovot, Israel) 30 Apr 1996 *the whole document*	1 - 10
A	US 5512391 A(Niles A.Fleischer, Rehovot, Israel) 03 Dec 1996 *the whole document*	1 - 10
A	US 2003-12996 A1(Stefan Bitterlich, Dirmstein) 16 Jan 2003 *the whole document*	1 - 10

☐ Further documents are listed in the continuation of Box C.☒ See patent family annex.

\* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&amp;" document member of the same patent family

Date of the actual completion of the international search

19 MARCH 2004 (19.03.2004)

Date of mailing of the international search report

20 MARCH 2004 (20.03.2004)

Name and mailing address of the ISA/KR



Korean Intellectual Property Office  
920 Dunsan-dong, Seo-gu, Daejeon 302-701,  
Republic of Korea

Facsimile No. 82-42-472-7140

Authorized officer

LEE, Woo Sik

Telephone No. 82-42-481-5428



**INTERNATIONAL SEARCH REPORT**  
Information on patent family members

International application No.  
PCT/KR2003/002571

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 5512391A	30 APRIL 1996	NONE	
US 5512391A	03 December 1996	NONE	
US 2003-12996A1	16 JANUARY 2003	NONE	

## PCT REQUEST

Original (for SUBMISSION) - printed on 26.11.2003 11:40:37 AM

VIII-5-1	<b>Declaration: Non-prejudicial disclosures or exceptions to lack of novelty</b> Declaration as to non-prejudicial disclosures or exceptions to lack of novelty (Rules 4.17(v) and 51bis.1(a)(v)). Name.	<b>in relation to this international application</b>  <b>KIM, Young-Taek declares that the subject matter claimed in this international application was disclosed as follows:</b>
VIII-5-1	Kind of disclosure:	<b>publication</b>
(i) VIII-5-1	Date of disclosure:	<b>01 June 2003 (01.06.2003)</b>
(ii) VIII-5-1	Title of disclosure:	<b>High Temperature Operation of PEMFC using Nafion/ZrSPP composite Membrane</b>
(iii) VIII-5-1	Place of disclosure:	<b>Republic of Korea</b>
(iv) VIII-5-1	This declaration is made for the purposes of	<b>all designations</b>
(v)		